

AIM Ann Report
1876 to 1877

REPORT
OF THE
AUCKLAND INSTITUTE
FOR 1876-77.

Adopted at the Annual Meeting held February 19, 1877.

Auckland:
WILLIAM ATKIN, GENERAL PRINTER, HIGH STREET.

1877.

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AUCKLAND INSTITUTE
FOR 1876-77.

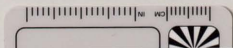
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1877.

OFFICERS

OF

THE AUCKLAND INSTITUTE.

COUNCIL.

President.

R. C. BARSTOW, ESQ., R.M.

CAMPBELL, J. L., ESQ., M.D.

HEALE, T., ESQ.

FIRTH, J. C., ESQ.

MITFORD, G. M., ESQ.

GILLIES, HIS HONOUR JUSTICE

POND, J. A., ESQ.

GOODALL, J., ESQ., C.E.

PURCHAS, REV. A. G.,
M.R.C.S.E.

HAULTAIN, THE HON. COL.

STEWART, J., ESQ., C.E.

WHITAKER, THE HON. F.

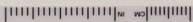
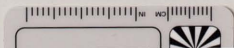
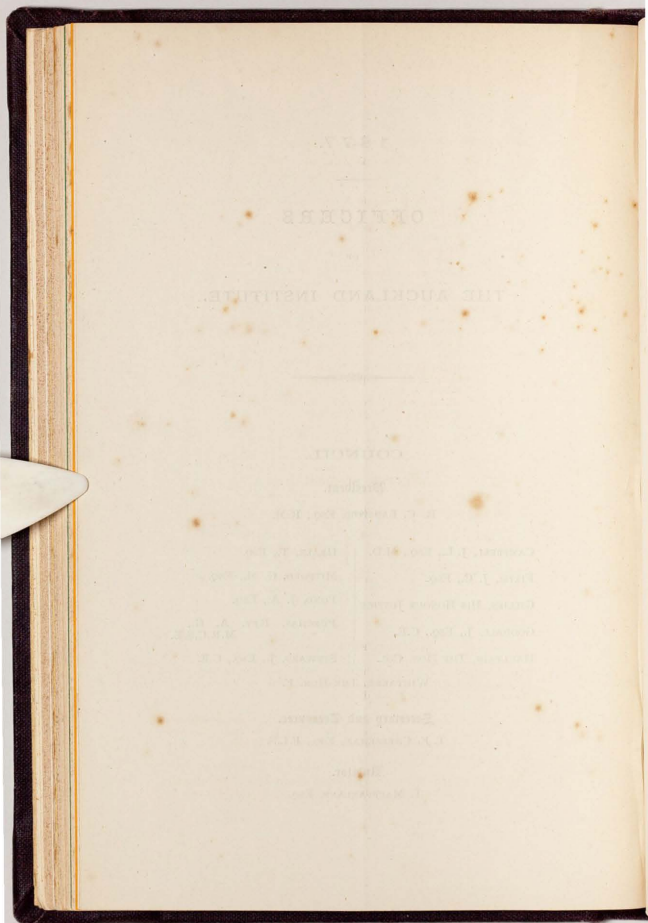
Secretary and Treasurer.

T. F. CHEESEMAN, ESQ., F.L.S.

Auditor.

T. MACFFARLANE, ESQ.

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*The following Magazines and Periodicals are Circulated amongst
the Members :—*

Quarterly Journal of Microscopical Science
Quarterly Journal of Science
Popular Science Review
Nature
Geological Magazine
Lancet
Scientific American
The Academy
The Garden
Botanical Magazine
Gardener's Chronicle
Chemical News
Engineering
Iron
Journal of Botany
Monthly Microscopical Journal
Science Gossip
Electrical and Telegraphic Review
Journal of the Society of Arts.

WINTER SESSION, 1877.

Meetings will be held on the following Monday Evenings :

MAY 28
JUNE 25
JULY 23

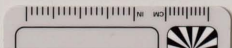
AUGUST 20
SEPTEMBER 24
OCTOBER 22

To commence at 7.30 p.m.

EXTRACTS FROM THE RULES.

1. Any person desiring to become a member of the Institute, shall be proposed in writing by two members, and shall be balloted for at the next meeting of the Council.
2. New members on election to pay one pound one shilling entrance fee, in addition to the usual subscription of one pound one shilling, the annual subscription being payable in advance on the first day of April for the then current year.
3. Members may at any time become Life-members by one payment of ten pounds ten shillings, in lieu of future annual subscriptions.

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R E P O R T .

IN accordance with the usual custom, the Council have now the pleasure of submitting their ninth annual Report upon the progress and condition of the Institute. In so doing, they have to congratulate the members on the removal of many of the obstacles that have for so long a period impeded the proper development of the Institute, and prevented it from assuming that position as a Scientific and Literary Society to secure which it was the aim and intention of its founders.

The new Institute and Museum Buildings were completed and finally handed over by the contractor in the month of May last. With the view of bringing the objects of the Institute more prominently under the notice of the public, and also with the hope of materially adding to the Building Fund, the Council determined to inaugurate the building with an Art and Industrial Exhibition, combined with a series of popular scientific lectures. Unfortunately, the time available for preparations was but short, and at first little more than partial success was anticipated. However, the ready assistance afforded by the members and friends of the Institute, together with the liberality evinced in forwarding articles for exhibition, removed the chief difficulties attending the undertaking; and the Exhibition, although somewhat unequal in character, and bearing manifest evidences of the haste with which it had been organised, was in reality a great success, and far surpassed anything of the kind previously attempted in Auckland. His Excellency the Governor kindly presided at the opening ceremony, which took place on June 5th, 1876. During the next three weeks experimental lectures on scientific subjects were delivered by Mr H. A. Severn

and other gentlemen. The proceedings were also varied by the exhibition of microscopes, spectroscopes, etc., and by an extensive series of views with the oxy-hydrogen lantern. This last, which proved a very attractive feature, was under the direction of Mr T. Crook, who kindly volunteered his services for the occasion. The attendance during the whole period was remarkably good, and the Council are happy to state that financially the Exhibition resulted in a substantial addition to the funds of the Society. The thanks of the Institute should here be given to the numerous ladies and gentlemen who kindly sent articles on loan, and especially to Sir G. Grey, K.C.B., whose valuable collection of rare books and manuscripts attracted considerable attention; and also to the Society of Artists, without whose active co-operation it would have been impossible to have obtained the display of pictures that covered the walls of the building.

The total cost of the Museum, including fittings, amounted to nearly £4000, thus exceeding by about £2200 the amount realized by private subscriptions. It had been intended to provide for this deficiency by mortgaging the building under the provisions of the Auckland Institute Act, of session 1875; but a clause having been inserted prohibiting the power of sale, this was found impracticable. As monetary engagements had been made with the contractor that required immediate settlement, it was resolved to obtain an overdraft at the Bank of New Zealand for £2000, on the joint security of the members of the Council, and to endeavour to obtain the passage of an amended Bill during the then approaching session of Parliament. This Bill was introduced, and safely carried through the House of Representatives, but was thrown out in the Upper House. Shortly afterwards, a sum of £2000 appeared on the general estimates for the colony as a grant to the Otago Museum, and strong representations were immediately made to the Government to induce them to propose a similar sum for Auckland. Principally through the action of the Hon. F. Whitaker, to whom the Institute is much indebted in this matter, this

was at length agreed to, and a vote for £2200 was finally assented to by both Houses. Through this fortunate termination of what at first appeared a most serious financial difficulty, the Council are able to congratulate the members on the complete extinguishment of the debt on the building, which now stands unfettered by any liabilities whatever.

Six meetings have been held during the year, at which the following papers were read and discussed:—

1. Introductory Address:—by the PRESIDENT.
2. On the Fertilisation of Selliera:—by T. F. CHEESEMAN, F.L.S.
3. Notes on Insects injurious to Kauri Timber:—by CAPTAIN T. BROWN.
4. Note on the Maori Rat:—by SIR G. GREY, K.C.B.
5. Description of a new species of *Cicindela*:—by CAPTAIN T. BROWN.
6. Descriptions of new species of Coleoptera:—by CAPTAIN T. BROWN.
7. Notes on the approaching Eclipse of the Sun:—by T. HEALE.
8. The Elements of Mathematics:—by J. ADAMS, B.A.
9. On Savage and Barbaric "Survivals" in Marriage:—by the REV. J. WALLIS, M.D.
10. On Lime as a Fertiliser:—by D. HAY.
11. Stray Thoughts on Mahori Migrations:—by R. C. BARSTOW, R.M.
12. Notes on Quartz Crushing:—by J. GOODALL, C.E.
13. Sketch of the Geology of the Northern Hawkes' Bay District:—by S. PERCY SMITH.

The eighth volume of the Transactions of the New Zealand Institute has been printed during the year, and

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copies have been duly distributed to the members. Although not equal in size to many of its predecessors, it has yet attracted considerable interest. The Council freely recognise the importance of the annual volume, not only as a means for placing on record a large amount of valuable information respecting the natural history and resources of the colony which otherwise might be entirely lost, or at least would not be presented in a form so readily accessible for reference, but also as tending to excite a more widely spread interest in the leading facts and generalizations of science.

The arrangement of the Museum collections in the new building necessarily occupied a considerable amount of time. The Council regret that, from the want of new cases and other requisites, it has not been possible to display some of the specimens in as full a manner as could be wished, but they hope that this drawback will at least be partially removed during the ensuing year. The principal additions have been as follows:—A series of foreign bird skins, mammals, &c., received in exchange from the Otago Museum; New Zealand bird skins, casts of the Harpagornis, and a fine skeleton of *Rhea Americana*, obtained in a similar manner from the Canterbury Museum; a most interesting collection of 100 bird skins from New Ireland and New Britain, including many rare and a few new species, purchased by special subscription from the Rev. G. Brown, C.M.Z.S. This latter gentleman has also presented to the Museum a valuable collection from the same islands, comprising an extensive series of Coleoptera, Lepidoptera, and other insects; shells, crustacea, lizards, etc., together with a large number of weapons, implements, and articles of clothing. Interesting donations have also been received from Mr J. Goodall, C.E., Mr Rayner, and numerous other gentlemen. Full particulars will be found appended.

The Council have to report that the Library of the late Provincial Council—consisting of about 2500 volumes of well-selected works—has been placed by the Government

in the keeping of the Institute, until final disposition of it is made by the General Assembly. In the meantime the Library is to be maintained, together with that of the Institute, as a Free Public Library for the use of the inhabitants of Auckland. The thanks of the Institute should here be given to Mr J. T. Mackelvie for a very liberal donation of 52 volumes of scientific works, now on their way from London.

On payment of the grant of £2200 the Government requested that the Museum and Library should be opened to the public daily. The Council have long been sensible of the necessity existing for this, but until recently the financial position of the Society was so uncertain that any change would have been premature. Even now it is doubtful whether the arrangement can be carried out, and the Library and Museum maintained in a satisfactory manner, with the limited means at the disposal of the Institute. However, the proposal was accepted, and came into effect on the first of December last. Since then the number of visitors has largely increased, and it is to be hoped that the change will prove as advantageous to the interests of the Institute as it is certainly beneficial to the public.

In concluding this Report, the Council hope that the active assistance of the members will now be given towards furthering the objects of the Institute,—either by contributing papers to be read at the meetings, by adding to the Library or Museum, or by any other mode that may tend towards these ends. The Council also trust that the general public will afford that liberal support which is due to an institution whose chief aim is to secure the advancement of knowledge, and the diffusion of scientific and practical information throughout the community.

THE TREASURER IN ACCOUNT WITH THE AUCKLAND INSTITUTE.

FEBRUARY 15TH, 1876, TO FEBRUARY 15TH, 1877.

Dr.	FEBRUARY 15TH, 1876, TO FEBRUARY 15TH, 1877.		Cr.		
	£	s. d.	£	s. d.	
Balance in the Bank of New Zealand, February 15, 1876	68	5 11	Books and Periodicals	33	16 10
Entrance Fees and Subscriptions.....	306	2 0	Additions to Museum	21	11 4
Rents.....	34	10 0	Museum Requisites—Printing, Advertising, Postages, &c.	37	3 10
Donations on account of new building.....	20	0 0	Gas.....	14	14 9
Books, &c., sold.....	7	3 6	Cleaning and attendance.....	15	3 9
			Paid on account of new building.....	105	19 6
			Repairs to old buildings.....	47	0 0
			Curator.....	100	0 0
			Life Subscription carried to Investment Fund	10	10 0
			Miscellaneous.....	19	2 2
			Balance in the Bank of New Zealand, February 15th, 1877 ...	30	19 3
	£436	1 5		£436	1 5

BUILDING FUND ACCOUNT.

	£ s. d.		£ s. d.
Balance in the Bank of New Zealand, February 15th 1876 ...	354 9 6	Paid on account of new building	2627 2 3
Additional Donations to Building Fund	127 14 0	Insurance	30 0 0
General Government Grant	2200 0 0	Expenses of Exhibition	138 15 6
Receipts from Exhibition	244 8 6	Interest on overdraft	68 12 10
Balance due Bank of New Zealand, February 15th, 1877	1 11 3	Repairs to old buildings.....	63 12 8
	£2928 3 3		£2928 3 3

INVESTMENT FUND ACCOUNT.

	£ s. d.		£ s. d.
Cash in Auckland Savings Bank, February 15th, 1876	23 11 5	Cash in Savings Bank, February 15th, 1877.....	35 8 1
Life Subscription	10 10 0		
Interest to January 1, 1877	1 6 8		
	£35 8 1		£35 8

Audited and found correct, February 16, 1877,
THO. MACFARLANE, AUDITOR.

T. F. CHEESEMAN,
TREASURER.

ADDITIONS AND DONATIONS

TO THE

LIBRARY AND MUSEUM.

- Meteorological Report for 1875; Colonial Museum and Laboratory Report for 1875; Catalogue of the Crustacea of New Zealand:—The Director of the Geological Survey.
- Parliamentary Papers and Reports; New Zealand Hansard for 1876:—The Colonial Secretary.
- Smithsonian Report for 1875; Pickering's Chronological Observations on Plants; Daily Bulletin of the United States Signal Service for 1872 and 1873; Report of the Geological Survey of the Territories, vol. 6; various Pamphlets:—The Smithsonian Institution, Washington, U.S.
- Don's Hortus Cantabrigiensis:—Coleman Philips.
- Dumeril's Analytical Ichthyology:—Dr Day.
- Davies on Mounting Microscopic Objects:—E. Bartley.
- Bartholini's Anatomy, date 1651:—A. M. Sheppard.
- Æsop's Fables in Greek and Latin, date 1660; Comfort in Tribulation, MS. of date 1587; the Garden of Armories, date 1567:—F. Green, Port Albert.
- Nicholl's Cyclopædia, 3 vols. (being the first book sold by auction in Auckland); Percival's Account of the Cape of Good Hope; Narrative of a residence in Koordistan; Historical description of Holyrood:—J. George.
- Phraseologia Generalis:—W. Rattray.
- St. Olon's Empire of Morocco:—F. Holmes.
- Catalogue of the Melbourne Public Library, 2 vols.:—Plunkett.
- Six Chinese Drawing Books:—The Special Correspondent of the *Herald*, San Francisco.
- Journal of the Society of Arts:—J. Martin.
- Old Edition of Virgil:—J. M. Mowbray.
- Monthly Meteorological Diagrams:—E. B. Dickson.
- On the Mineralogy of New South Wales; On the Formation of Moss Gold and Silver:—Prof. Liversidge.
- Auckland Journal of Commerce, 6 numbers:—J. A. Barber & Co.
- Old Auckland Newspapers:—W. Shanaghan.
- Telegraphic Map of the World:—Hon. F. Whitaker.
- Publications of the New Sydenham Society for 1875-6:—Purchased.
- Publications of the Paleontographical Society for 1875:—Purchased.
- Transactions and Proceedings of the Zoological Society for 1875:—Purchased.
- 35 volumes of Books:—Purchased.
- Large Oil Painting:—Dr Campbell.

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- Seven mammals, 100 bird skins, Moa bones, N.Z. shells:—Capt. F. W. Hutton, Otago Museum.
- 80 bird skins, fishes, &c.:—J. Goodall, C.E.
- 100 bird skins from New Britain and New Ireland:—Purchased by special subscription from the Rev. G. Brown, C.M.Z.S.
- 12' Marsupials, bats, &c.; extensive collection of lepidoptera, coleoptera, and other insects; shells, crustacea, reptiles, &c.; eggs of the cassowary, megapode, &c.; series of 80 articles—weapons, implements, articles of clothing—illustrating the manners and customs of the inhabitants of New Britain and New Ireland:—The Rev. G. Brown, C.M.Z.S.
- 23 New Zealand bird skins; skeleton of *Rhea Americana*; casts of the *Harpagornis*:—Dr J. Haast, F.R.S., Christchurch Museum.
- Case of North American birds (deposited):—S. Morrin.
- Six bird skins from Savage Island; lizards, insects, &c.:—H. Mair.
- Two skins of the large Bird of Paradise (*Paradisea apoda*):—Purchased.
- Seal (*Stenorhynchus leptonyx*), captured at Whangarei:—F. Hartwell.
- Lower jaw of wild boar:—H. Palmer.
- Head and antlers of Deer:—S. T. George.
- Snout of sword fish:—H. Munro.
- Carapace and jaws of tortoise:—Captain Millar.
- Sepiotentis major*:—Captain McGillivray.
- Lizards and insects from the Islands:—Mr Justice Gillies.
- Fijian land and marine shells:—G. F. Woods.
- Collection of English land and fluviatile shells, New Zealand shells and insects, various osteological preparations:—Mrs A. Fox.
- Pedunculated cirripedes from the back of a whale; one fish (*Pelamys chilensis*), specimens of *Bulimus antipodarum*:—J. H. Greenway.
- Land crab from Samoa:—Dr Goldaboro'.
- Land crab and shells from Savage Island:—H. B. Sterndale.
- Euplectella speciosa*:—E. A. Mackechnie.
- One fish (*Genypterus blacodes*), specimens of *Helix Busbyi*:—H. A. H. Monro.
- Skin of kiwi:—J. Wilkinson.
- Green Lizard:—L. C. Goffe.
- Green lizards from Napier:—D. B. Balfour.
- Specimens of the Tuatara lizard:—J. A. Pond.
- Tuatara lizards from East Cape Islet:—Wilson.
- Egg of albatross, New Zealand shells:—Hon. Col. Haultain.
- Egg of kiwi:—G. Moon.
- New Zealand shells:—J. George.
- Mantis sp.:—J. Sharp.
- Large spider:—R. Horne.
- Hepialus virescens*:—Hon. Col. Haultain.
- Centipede:—J. Hall.
- Deinacrida heteracantha*:—J. C. Sharland.
- Collection of butterflies from Fiji:—Rev. W. Floyd.
- 125 species of New Zealand coleoptera:—Captain T. Broun.
- 75 species of coleoptera, New Zealand shells, &c.:—T. F. Cheeseman, F.L.S.
- Crystallised quartz, carbonate of lime, arsenic, &c., from the Tokatea and Bismarck mines, Coromandel:—G. Rayner.
- Graphite from Coromandel:—W. Steel.
- Gold specimen from Coromandel:—Hon. J. Williamson.
- Cinnabar from Ohawai, Bay of Islands; iron ore:—W. Earl.
- Australian tin ores and smelted tin:—A. H. Nathan.

- Large block of nickel ore from New Caledonia:—A. T. Maning, per Ward & Co.
- Lava from Mauna Loa, Sandwich Islands; lignite from the bed of the Waiuku Creek:—R. C. Barstow.
- Large block of coal, silicified wood:—Bay of Islands Coal Company.
- Ironstone from Miranda, and pig-iron smelted from it:—Fraser and Tinne.
- Collection of agates, &c., and various minerals from India:—Mrs Thom.
- Rock specimens from the Great Barrier Island:—Springall.
- Rock specimens from Raglan:—T. B. Hill.
- Encrustations from the shaft of the Pumping Association, Thames:—C. Tothill.
- Rock specimens, crystallised lead:—Hazard.
- Scrap lead, cast and milled at Wellington:—J. Ballinger.
- Ruby copper from the Great Barrier Island:—T. Heale.
- Native copper and hornblende porphyry from Cornwall:—W. Jaggar.
- Australian copper ores:—Mr Compton.
- Ambrit from the Waikato Coal Mines:—R. R. Hunt.
- Carbonate of iron:—D. M. Beere, C.E.
- Specimens of sulphur and gypsum from White Island:—Messrs Wilson and Troup.
- Agates, chalcedony, jasper, &c., from Hastings:—J. Lownes.
- Nickel ore from New Caledonia:—Mr Justice Gillies.
- Stone adze:—W. J. Dalton.
- Fern beater, stone adzes:—Miss Baker.
- Two polished stone adzes, greenstone adze, hone:—Dr Maunsell.
- Carved staff:—J. E. Allen.
- Dogskin mat, flax mats, widow's cap, greenstone adze, fish hooks, stone mere:—Deposited by Mr R. C. Barstow.
- Old stone mere:—F. J. Shortt.
- Large stone mere:—T. B. Hill.
- Revolver found on the site of the Gate Pah, Tauranga:—J. Chadwick.
- Stone adze:—J. Breen.
- Stone adze:—J. Springall.
- Two spears:—Dr Watling, Norfolk Island.
- Cap made of spiders' webs:—Captain Farquhar.
- Native dress and waist-belt, fish hooks, &c., from the Marshall Islands; Native dress, head-dress, comb, shells from the Friendly Islands:—Captain Laverock.
- Buoy, made of sealskin, from Alaska:—R. C. Barstow.
- Wooden pipe used by the Indians of Canada:—D. M. Beere, C.E.
- Set of soapstone figures, illustrating the different trades of India:—Mrs Thom.
- Kawa root:—J. M. Tunny.
- Piece of Herne's oak:—G. S. Graham.
- Rata knot:—J. Brown.
- Collection of coins:—J. Leonard.
- 32 copper coins:—J. Smallwood.
- 75 Roman coins:—C. D. Stanier (deposited).
- Roman coins:—H. B. Montgomery.
- Bell carved out of kauri gum:—H. B. Dobbie.
- Large model of a full-rigged ship:—Mr Hirst (deposited).
- Seed of entada scandens, washed up at Waipu:—H. Moir.
- Sheeting and yarn manufactured from phormium fibre:—Lockhart & Co., Edinburgh.

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AUCKLAND INSTITUTE.

LIST OF MEMBERS

FOR THE

YEAR ENDING MARCH 31ST, 1877.

Adams, J., B.A., Parnell
Aickin, G., Auckland
Aitken, W., Auckland
Allwright, H., C.E., Auckland
Anderson, J., B.A., Auckland
Anderson, H. F., Auckland
Anderson, W., Auckland
Arney, Sir G. A., Auckland
Atkin, Wm., Auckland
Atkin, W., Tamaki

Baber, J., C.E., Remuera
Ball, T., Mangonui
Ball, W. T., Auckland
Barber, H. P., Parnell
Barstow, R. C., R.M., Auckland
Bartley, E., Devonport
Bates, Rev. J., Devonport
Batger, J., Auckland
Beere, D. M., C.E., Auckland
Beetham, A., Epsom
Biss, S. B., Auckland
Boylan, J. F., Auckland
Brett, H., Auckland
Brook, A., Auckland
Broham, T., Auckland
Broun, Capt. T., Tairua
Bruce, Rev. D., Auckland
Buchanan, Jas., Auckland

Buchanan, Jno., Auckland
Buckland, W. F., Remuera
Buddle, Rev. T., Epsom
Buddle, T., Auckland
Burton, Capt., London

Cameron, W., Auckland
Campbell, J. L., M.D., Auckland
Carr, H. T., C.E., Auckland
Carr, R. C., Remuera
Cawkwell, W. J., Auckland
Chamberlin, Hon. H., Auckland
Chambers, J., Auckland
Chapman, G. T., Auckland
Cheeseman, T. F., F.L.S., Auckland
Clark, A., Remuera
Clark, J. M., Remuera
Clarke, The Ven. Archdn. E. B.,
Waimate
Clarke, W. H., C.E., Hamilton
Cooke, C. E., Auckland
Cosgrave, J., Auckland
Cowie, Right Rev. W. G., D.D.,
Bishop of Auckland
Cox, A., Hamilton
Cranwell, T., Parnell
Crook, T., Mount Albert
Cruickshank, D. B., Auckland

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Daddy, W. C., Auckland
Daveney, Capt. B., Auckland
Dawson, F. W. H., M.R.C.S.E.,
Auckland.
Day, R., M.D., Auckland
Dickson, R., Auckland
Dyson, R. W., Auckland

Earl, W., Parnell
Edson, J., Auckland
Errington, W., C. E., Auckland
Ewington, F. G., Auckland

Fairburn, J., Otahuhu
Fallon, D., Auckland
Farmer, J., London
Firth, J. C., Auckland
Floyd, W. H., Tauranga
Fraser, G., Auckland
Fraser, Rev. J. M., Auckland

George, H. R., Epsom
George, J., Auckland
George, S. T., Kawai
Gibbons, E., Onehunga
Gillies, His Honor Justice, Auck-
land
Gittos, B., Auckland
Goldsboro', C. F., M.D., Parnell
Goodall, J., C.E., Auckland
Goodfellow, W., Otara
Gorrie, W., Auckland
Graham, G. S., Auckland
Graham, W. K., Auckland
Green, Major, Auckland
Grey, J., Auckland
Grey, W., Auckland

Hall, J. W., Grahamstown
Harding, S., C.E., Auckland
Harrison, E. M., Auckland
Hartmann, F. A., M.D., Auckland
Hassard, Rev. R. S., M.A., Auck-
land
Haultain, Hon. Col., Auckland
Hay, D., Parnell
Hay, J., Auckland
Heale, T., Auckland
Henderson, J., C.E., Wellington
Henderson, T., Jun., Auckland
Henton, J. S., Auckland
Herapath, P., Auckland
Hesketh, E., Auckland

Hill, W. J., Auckland
Hobbs, R., Pokeno
Holdship, G., Auckland
Hooper, J. H., M.R.C.S.E., Auck-
land
Howden, G., Auckland
Humphreys, W., Auckland
Hunt, R. R., Ngaruawahia
Hunt, W. A., Remuera
Hurst, W. J., Auckland

Ireland, B., Auckland

Johnston, G., Auckland
Jones, Owen, Auckland
Jones, Stannus, Auckland
Judd, A., Auckland

Kent, F. D., Auckland
Kinder, Rev. J., D.D., S. John's
College
Kinsella, J., Parnell
Kirk, T., F.L.S., Wellington
Kissling, G. S., Parnell
Kissling, T., Parnell
Kissling, W. H., Parnell
Kitchen, G., Auckland
Knorrp, C. B., C.E., Auckland

Lamb, J., Riverhead
Larkworthy, F., London
Lavers, G. H., Auckland
Leaf, C. J., F.L.S., S.A., G.S.,
London
Lee, W., M.D., Auckland
Lennox, J. M., Auckland
Lessong, L., Ph.D., Thames
Lindsay, J., C.E., Ngaruawahia
Lodder, W., Remuera
Lodge, W. F., Auckland
Luckie, D. M., Auckland
Luke, S., Otahuhu
Lusk, H. H., Auckland
Lysnar, C., Auckland

Macmillan, C. C., Remuera
MacCormick, J. C., Auckland
Macdonald, A. V., C.E., Auckland

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Macfarlane, T., Auckland
Macfarlane, R. J., C.E., Thames
Mackechnie, E. A., Auckland
Mackellar, H. S., Wellington
Maclean, E., Howick
Macrae, F., Auckland
Mair, Capt. G., F.L.S., Ohinemutu
Mair, R., Whangarei
Mair, Major W. G., Alexandra
Maning, F. E., Hokianga
Martin, J., Auckland
Masefield, T. S., Auckland
Maunsell, Ven. Archdn. W., Parnell
Meinertzhagen, F. M., Napier
Mitford, G. M., Parnell
Moat, W., Mahurangi
Morton, H. B., Auckland
Morrin, T., Auckland
Monro, H. A. H., Auckland
Moss, F. H., Auckland
Mowbray, J. M., Auckland
Murdoch, D. L., Epsom

Nathan, L. D., Auckland
Nation, Col., Parnell
Nelson, Rev. C. M., M.A., Auckland
Nicol, M., Auckland
Nicol, T., Auckland

O'Rorke, G. M., Onehunga
O'Sullivan, R. J., Auckland
Owen, G. B., Epsom

Palmer, H., Mahurangi
Peacock, T., Auckland
Perkins, E., Auckland
Philips, C., Auckland
Pierce, G. P., Auckland
Pollen, Hon. D., M.D., Auckland
Pollen, H., Auckland
Pond, J. A., Auckland
Pounds, J. E., Auckland
Preece, J. W., Auckland
Purchas, Rev. A. G., M.R.C.S.E.,
Newton

Rattray, W., Auckland
Rayner, G., Coromandel

Richmond, J., Auckland
Robertson, J., Auckland
Robertson, J., Mangere
Ronaldson, J., Kawa Kawa
Rose, R., Auckland
Rubery, A., Newton
Runciman, Jas., Cambridge
Russell, Jas., Auckland
Russell, J. B., Devonport
Russell, T., Auckland
Rye, Lewis, Otamatea

Scott, W., Paterangi
Secombe, J. C., Newmarket
Sheath, A., Auckland
Sheppard, A. M., Otahuhu
Shera, J. M., Auckland
Sinclair, A., Remuera
Slatter, J., Epsom
Smales, Rev. G., East Tamaki
Smith, S. P., Parnell
Spencer, T., Grahamstown
Stephens, Ingham, Remuera
Stevenson, J. Y., Remuera
Stewart, J., C.E., Auckland
Stewart, T. M., Melbourne
Stockwell, W., L.R.C.S.E., Auckland
Stone, C. J., Auckland

Taylor, Hon. C. J., Auckland
Taylor, J., Auckland
Thomas, Capt., Parnell
Thomson, Neil, Mahurangi
Thorne, G., jun., Auckland
Tilly, Lieut. T.C., R.N., Remuera
Tinne, H., Tamahere
Tinne, T. F. S., Auckland
Tomlinson, Rev. A. R., M.A.,
Onehunga
Tonks, B., Parnell
Tohill, C., Auckland
Troup, F. H., Auckland
Tunny, J. M., Auckland

Vickers, S., Auckland
Von der Heyde, G., Auckland

Waddington, E., M.D., Alexandra
Waller, G. W., Auckland

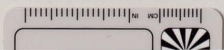
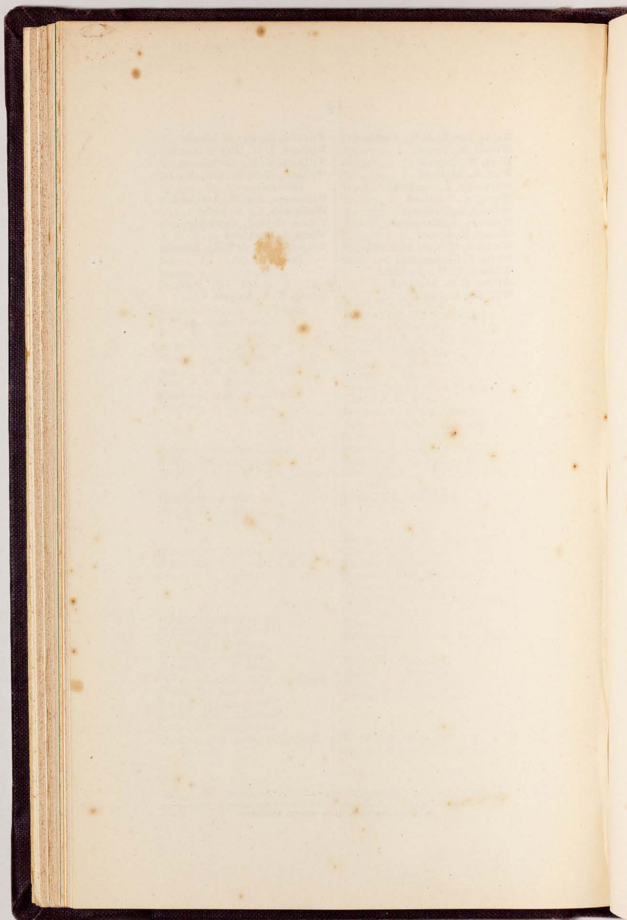
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Wallis, Rev. J., M.D., Auckland
Walker, R., Parnell
Ware, W., Parnell
Watt, J., Auckland
Waymouth, J., Auckland
Wayte, E., Auckland
Webster, J., Hokianga
Weetman, S., Mongonui
Weston, T., Epsom
Whitaker, Hon. F., Auckland
White, T. L., Auckland
Whitson, R. W., Auckland
Wilcox, E. B., Auckland
Will, W., Auckland

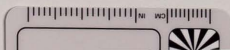
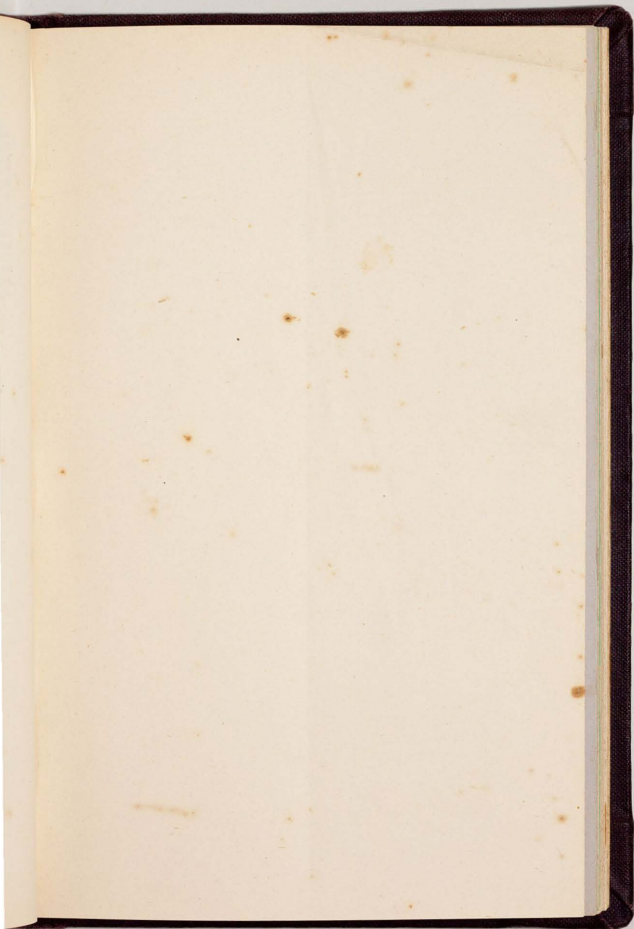
Williams, H., Bay of Islands
Williams, J. W., Bay of Islands
Williams, W. H., Kawa Kawa
Williams, Ven. Archdn., W. L.,
Gisborne
Williamson, Hon. J., Auckland
Williamson, C., Auckland
Wilson, Major J., Cambridge
Winks, J., Auckland
Wright, F. W., L.M.B., Toronto,
Parnell

Young, W. S., Kaipara

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